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By:

Gina Simon

PATENT

Customer No. 22,852

Attorney Docket No. 04853.0118-00000

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	
)	
Akira TSUKAMOTO et al.)	Group Art Unit: Not Yet Assigned
)	
Application No.: 10/505,474)	Examiner: Not Yet Assigned
)	
Filed: August 24, 2004)	
)	
For: CELLULOLYTIC ENZYME GENE)	Confirmation No.: Not Yet Assigned
AND USE THEREOF)	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicants bring to the attention of the Examiner the documents on the attached listing. This Information Disclosure Statement is being filed within three months of the date of entry of the national stage in an international application and before the mailing date of a first Office Action on the merits for the above-referenced application.

Copies of the documents are attached.

The following are listed on the accompanying PTO/SB/08 form and are in a non-English language:

1. Japanese patent application publication 11-127863. Applicants note this document is on the International Search Report, which is enclosed. An English language abstract of this document is also enclosed.

2. Japanese patent application publication 2000-106887. Applicants note this document is on the International Search Report, which is enclosed. An English language abstract of this document is also enclosed.

3. Japanese scientific publication by Akamatsu et al. This document is discussed in the specification of the present application. An English language abstract of this document is part of the publication.

4. Swedish scientific publication by Ander and Eriksson, entitled "Mekanisk massa från förrötad flis -- en inledande undersökning." This document is discussed in the specification of the present application. An English language abstract of this document is part of the publication.

5. Japanese scientific publication by Nishibe et al. This document is discussed in the specification of the present application. An English language abstract of this document is part of the publication.

Applicants respectfully request that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and Applicants determine that the cited documents do not constitute "prior art"

under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

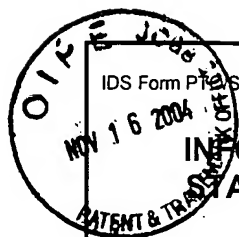
Dated: November 16, 2004

By: 

Stephanie M. Liva

Reg. No. 54,278

Customer No. 22,852



IDS Form PTO/SB/08: Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

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of

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Complete if Known

Application Number	10/505,474
Filing Date	August 24, 2004
First Named Inventor	Akira TSUKAMOTO
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	04853.0118-00000

115**U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS**

Examiner Initials	Cite No. ¹	Document Number	Issue or Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			

Note: Copies of the U.S. Patent Documents are not Required in IDS filed after October 21, 2004**FOREIGN PATENT DOCUMENTS**

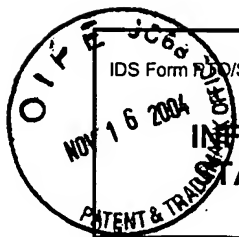
Examiner Initials	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		EP 1 029 922 A2	08-23-2000			
		JP 11-127863 A	05-18-1999			Yes-Abstract Only
		JP 2000-106887	04-18-2000			Yes-Abstract Only

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation ⁶
		AKAMATSU et al., "Influence of White-Rot Fungi on Poplar Chips and Thermo-Mechanical Pulping of Fungi-Treated Chips," <i>Mokuzai gakkaiishi</i> , 30(8):697-702 (1984).	Yes - Abstract Only
		ANDER and ERIKSSON, "Influence of Carbohydrates on Lignin Degradation by the White-Rot Fungus <i>Sporotrichum pulverulentum</i> ," <i>Svensk Papperstidning nr</i> 18:643-652 (1975).	
		ANDER and ERIKSSON, "Mekanisk massa från förrötad flis -- en inledande undersökning," <i>Svensk Papperstidning nr</i> 18:641-642 (1975).	Yes-Abstract Only
		BAJPAI et al., "Biokraft Pulping of Eucalyptus with Selected Lignin-Degrading Fungi," <i>Journal of Pulp and Paper Science</i> , 27(7):235-239 (2001).	
		BAR-LEV et al., "Fungal Treatment Can Reduce Energy Requirements for Secondary Refining of TMP," <i>Tappi Journal</i> , 111-113 (1982).	
		CHEN and SCHMIDT, "Improving Aspen Kraft Pulp by a Novel, Low-Technology Fungal Pretreatment," <i>Wood and Fiber Science</i> , 27(2):198-204 (1995).	
		DUMONCEAUX et al., "Cellobiose Dehydrogenase is Essential for Wood Invasion and Nonessential for Kraft Pulp Delignification by <i>Trametes versicolor</i> ," <i>Enzyme and Microbial Technology</i> , 29:478-489 (2001).	
		DUMONCEAUX et al., "Cloning and Sequencing of a Gene Encoding Cellobiose Dehydrogenase from <i>Trametes versicolor</i> ," <i>Gene</i> , 210:211-219 (1998).	
		ERIKSSON et al., "Oxidation: An Important Enzyme Reaction in Fungal Degradation of Cellulose," <i>FEBS Letters</i> , 49(2):282-285 (1974).	
		ERIKSSON and VALLANDER, "Properties of Pulps from Thermomechanical Pulping of Chips Pretreated with Fungi," <i>Svensk Papperstidning</i> , 6:R33-R38 (1982).	
		HENRIKSSON et al., "A Critical Review of Cellobiose Dehydrogenases," <i>Journal of Biotechnology</i> , 78:93-113 (2000).	
		IGARASHI et al., "Cellobiose Dehydrogenase Enhances <i>Phanerochaete chrysosporium</i> Cellobiohydrolase I Activity by Relieving Product Inhibition," <i>Eur. J. Biochem</i> , 253:101-106 (1998).	

Examiner
SignatureDate
Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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Sheet

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First Named Inventor	Akira TSUKAMOTO
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	04853.0118-00000

	KASHINO et al., "Biomechanical Pulping Using White-Rot Fungus IZU-154," <i>Tappi Journal</i> , 76(12):167-171 (1993).	
	LI et al., "Cellobiose Dehydrogenase from <i>Phanerochaete chrysosporium</i> is Encoded by Two Allelic Variants," <i>Applied and Environmental Microbiology</i> , 63(2):796-799 (1997).	
	LI et al., "Cloning of a cDNA Encoding Cellobiose Dehydrogenase, a Hemoflavoenzyme from <i>Phanerochaete chrysosporium</i> ," <i>Applied and Environmental Microbiology</i> , 62(4):1329-1335 (1996).	
	LI et al., "Homologous Expression of Recombinant Cellobiose Dehydrogenase in <i>Phanerochaete chrysosporium</i> ," <i>Biochemical and Biophysical Research Communications</i> , 270:141-146 (2000).	
	MOLINA et al., "Biopulping for Kraft Pulp of <i>Pinus radiata</i> ," <i>Appita</i> , 57-63 (1996).	
	MOLINA et al., "Refining Biokraft Pulp of <i>Pinus radiata</i> ," <i>Appita</i> , 199-206 (1997).	
	MOUKHA et al., "Cloning and Analysis of <i>Pycnoporus cinnabarinus</i> Cellobiose Dehydrogenase," <i>Gene</i> , 234:23-33 (1999).	
	MYERS et al., "Fungal Pretreatment of Aspen Chips Improves Strength of Refiner Mechanical Pulp," <i>Tappi Journal</i> , 105-108 (1988).	
	NISHIBE et al., "Screening of White-rot Fungi and Characteristics of Bio-degraded TMP," <i>Japan Tappi</i> , 42(2):67-82 (1988).	Yes-Abstract Only
	ORIARAN et al., "Kraft Pulp and Papermaking Properties of <i>Phanerochaete Chrysosporium</i> -degraded Aspen," <i>Tappi Journal</i> , 73:147-152 (1990).	
	RAICES et al., "Cloning and Characterization of a cDNA Encoding a Cellobiose Dehydrogenase from the White Rot Fungus <i>Phanerochaete chrysosporium</i> ," <i>FEBS Letters</i> , 369:233-238 (1995).	
	SAMUELSSON et al., "Influence of Fungal Treatment on the Strength versus Energy Relationship in Mechanical Pulping," <i>Svensk Papperstidning nr 8</i> :221-225 (1980).	
	SCOTT and SWANEY, "New Technology for Papermaking: Biopulping Economics," <i>Tappi Journal</i> , 81(12):153-157 (1998).	
	SIMS et al., "The Identification, Molecular Cloning and Characterisation of a Gene from <i>Phanerochaete chrysosporium</i> that Shows Strong Homology to the Exo-Cellobiohydrolase I Gene from <i>Trichoderma reesei</i> ," <i>Gene</i> , 74: 411-422 (1988).	
	YAGÜE et al., "Correlation of Exons with Functional Domains and Folding Regions in a Cellulase from <i>Agaricus bisporus</i> ," <i>Curr. Genet.</i> , 30:56-61 (1996).	
	International Search Report for PCT Application No. PCT/JP03/02058, dated May 27, 2003 (2 pages).	

Examiner Signature		Date Considered	
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